

10

FIG. 1 communication system

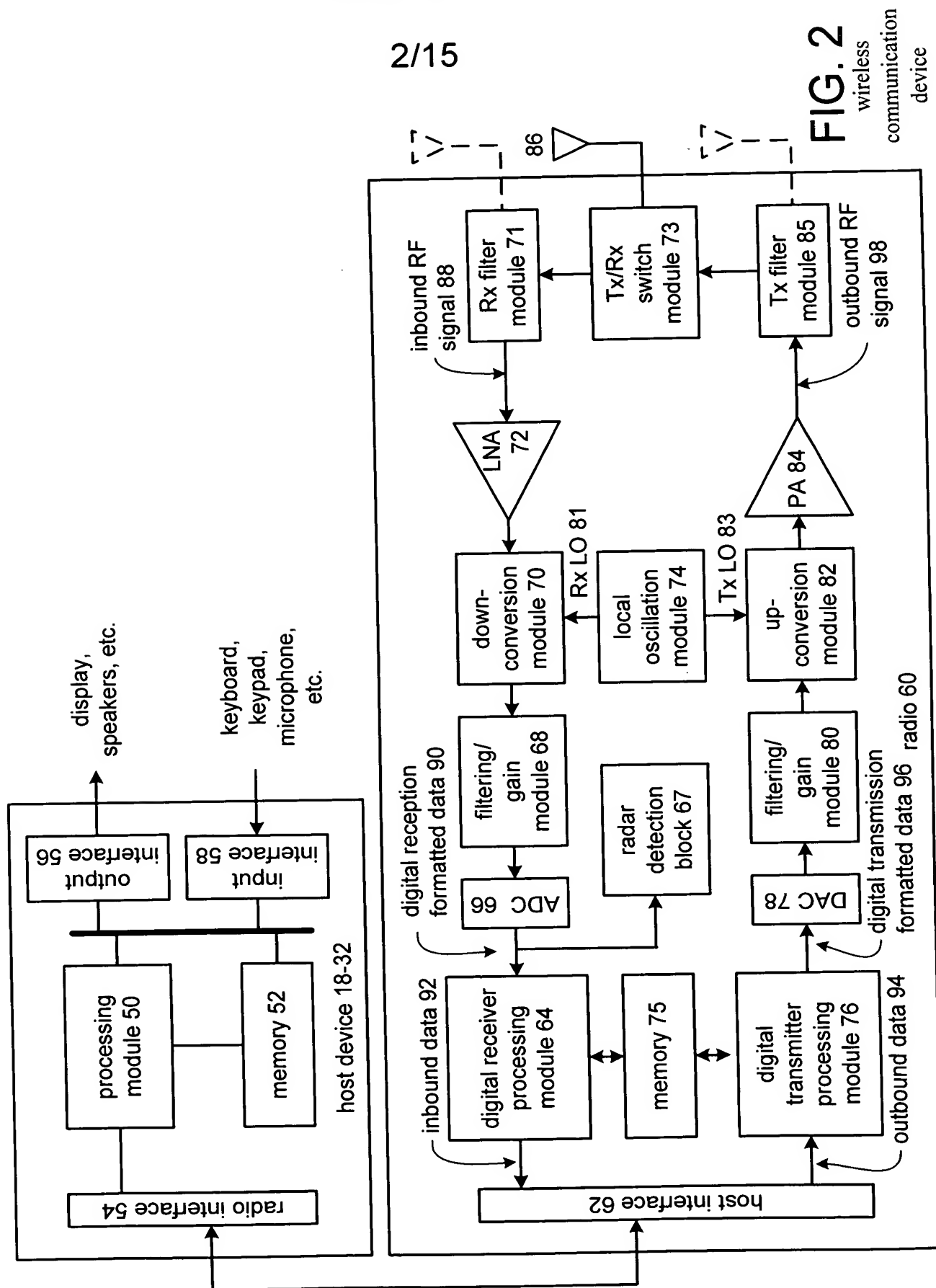


FIG. 2
wireless
communication
device

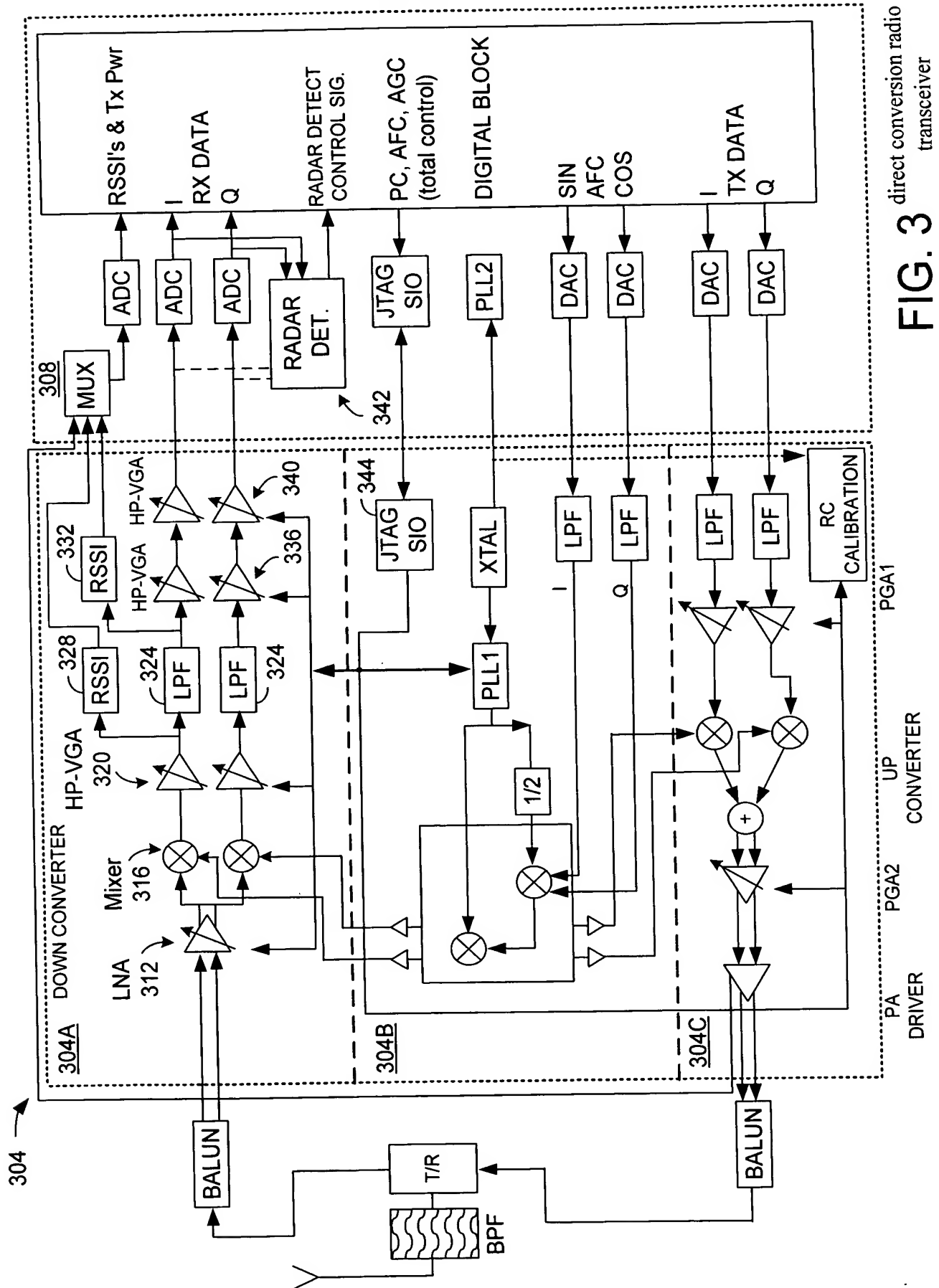


FIG. 3 direct conversion radio transceiver

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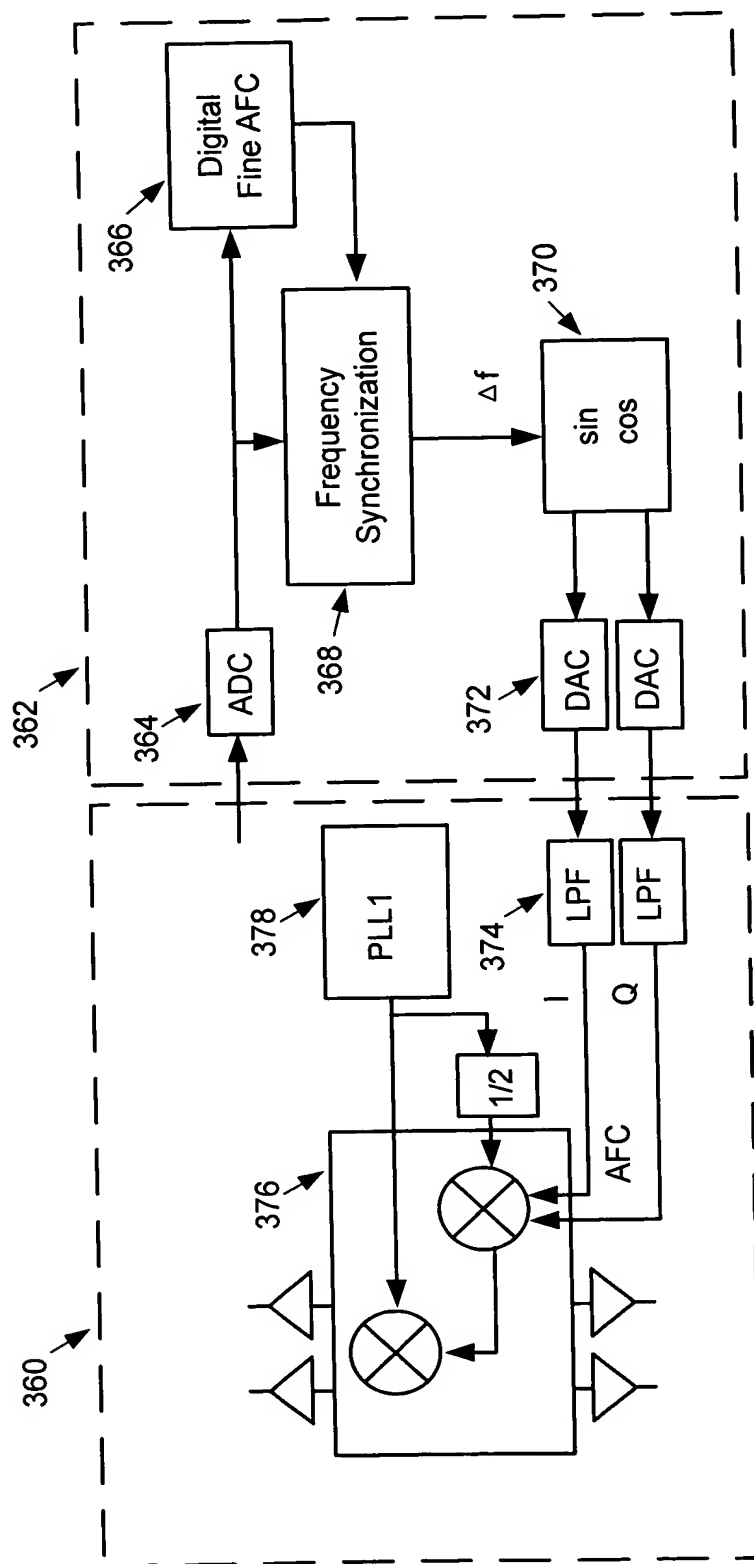


FIG. 4 receiver automatic frequency control circuit

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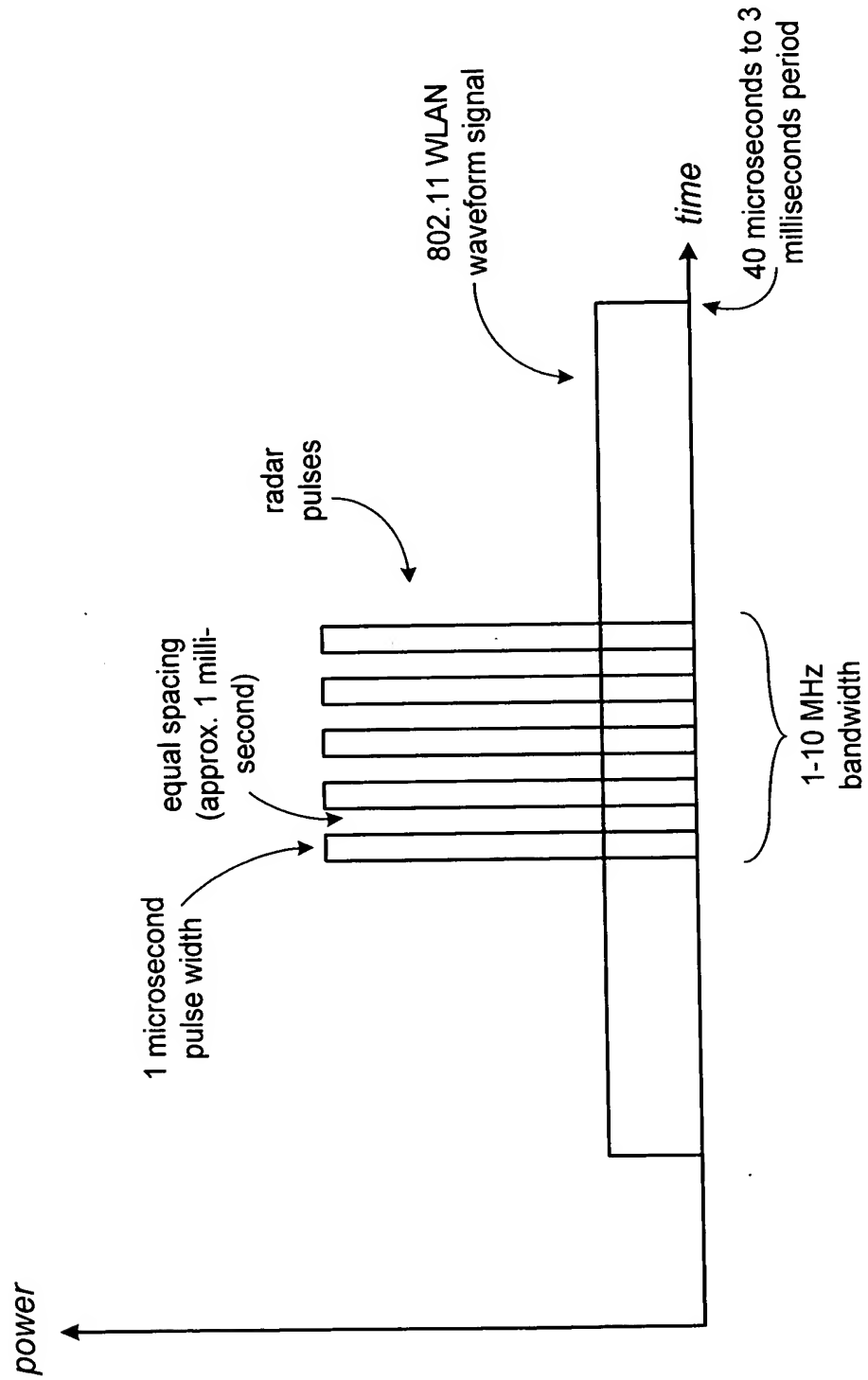


FIG. 5 radar and WLAN signals

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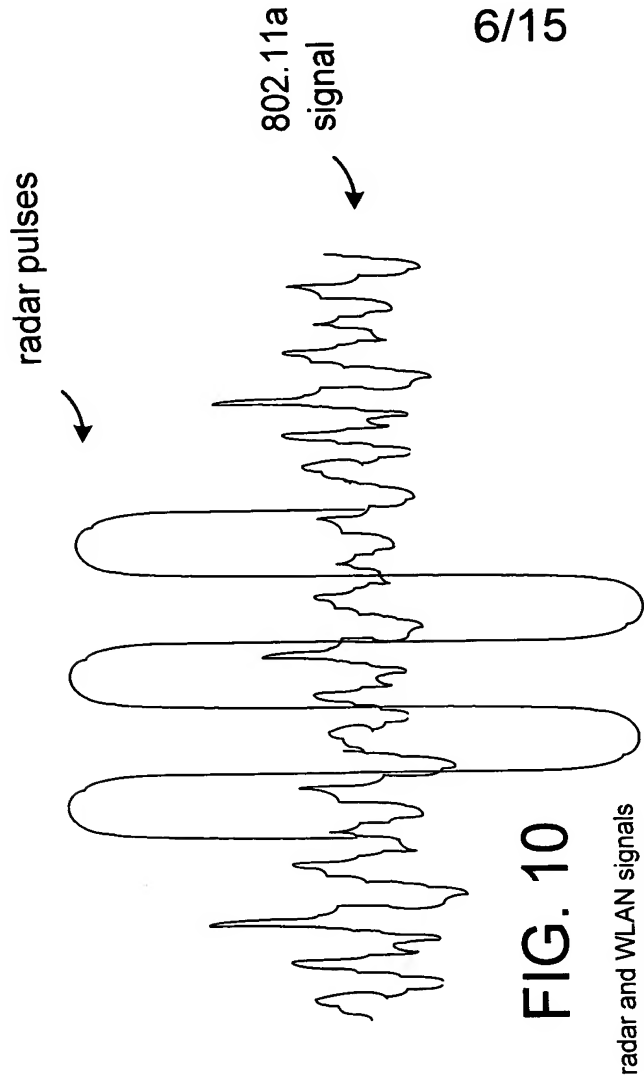


FIG. 10

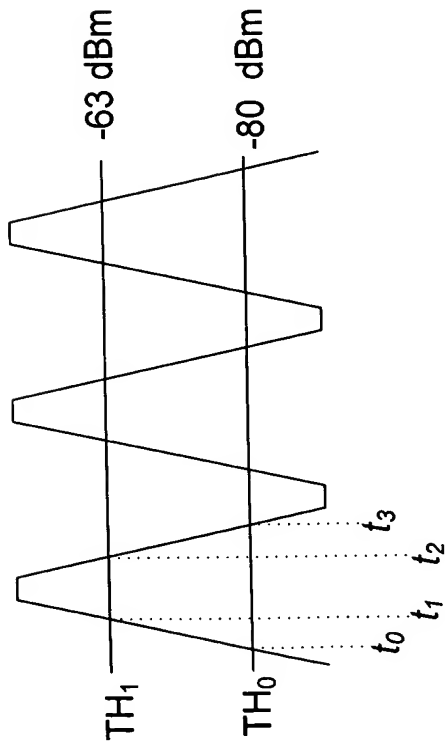


FIG. 7 radar pulse reception

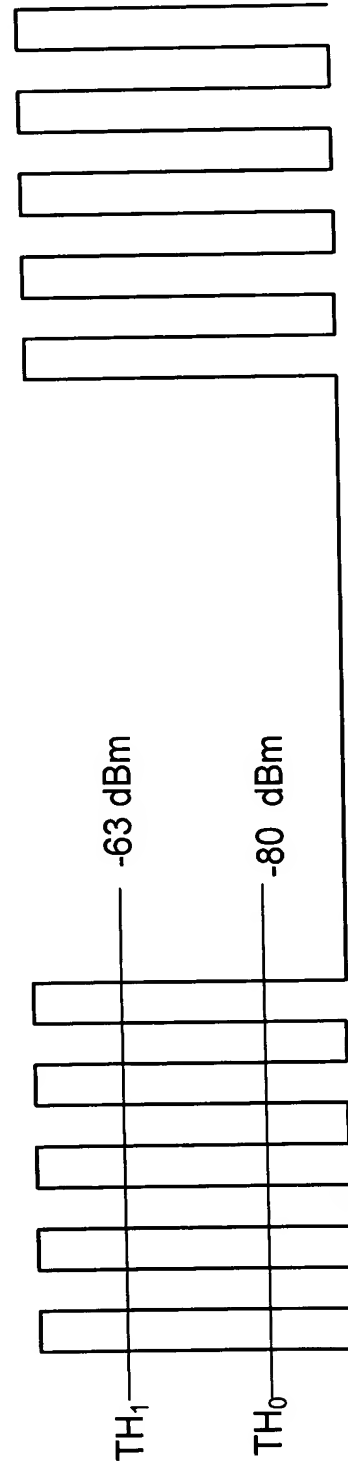


FIG. 6 groups of radar pulses

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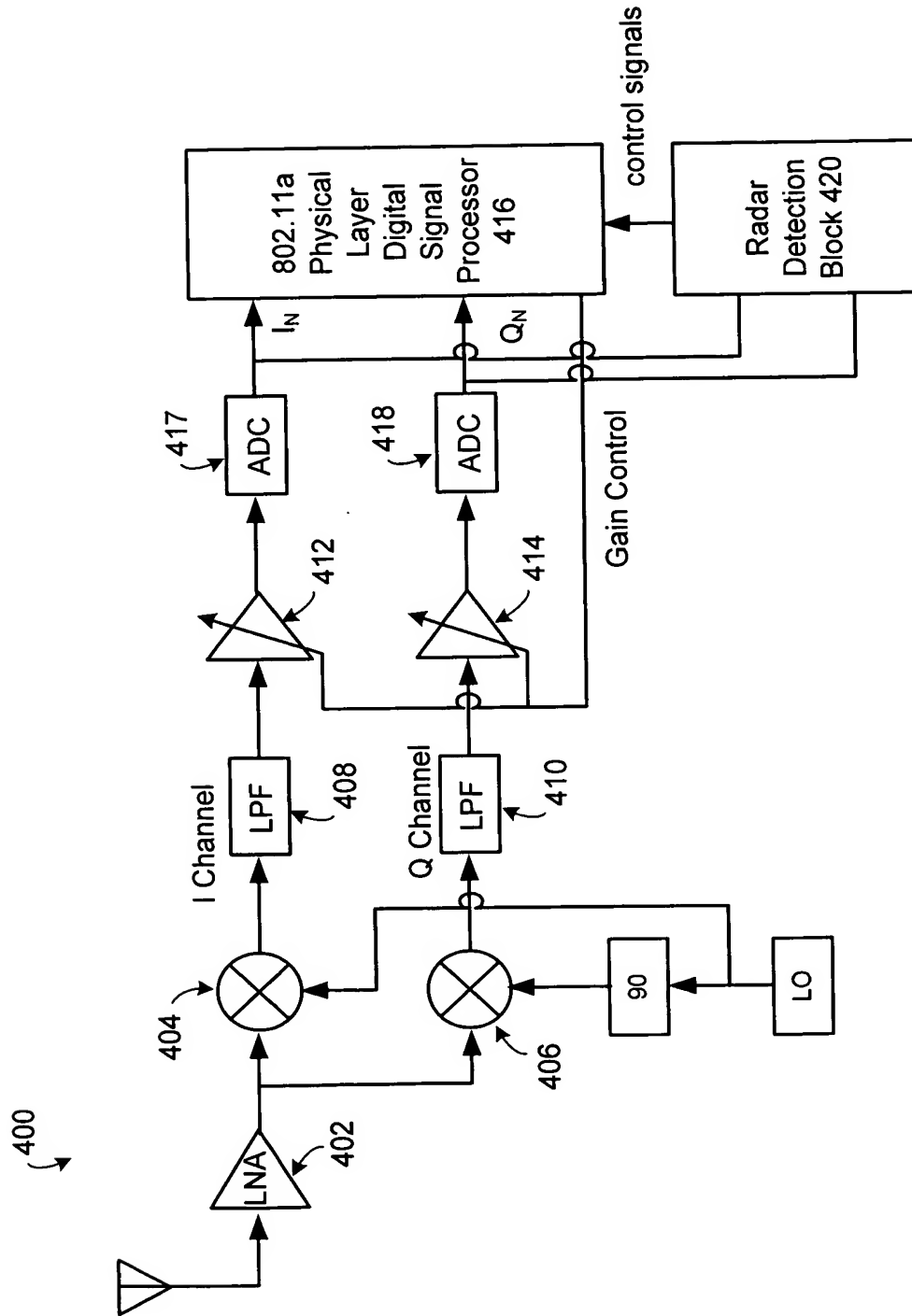
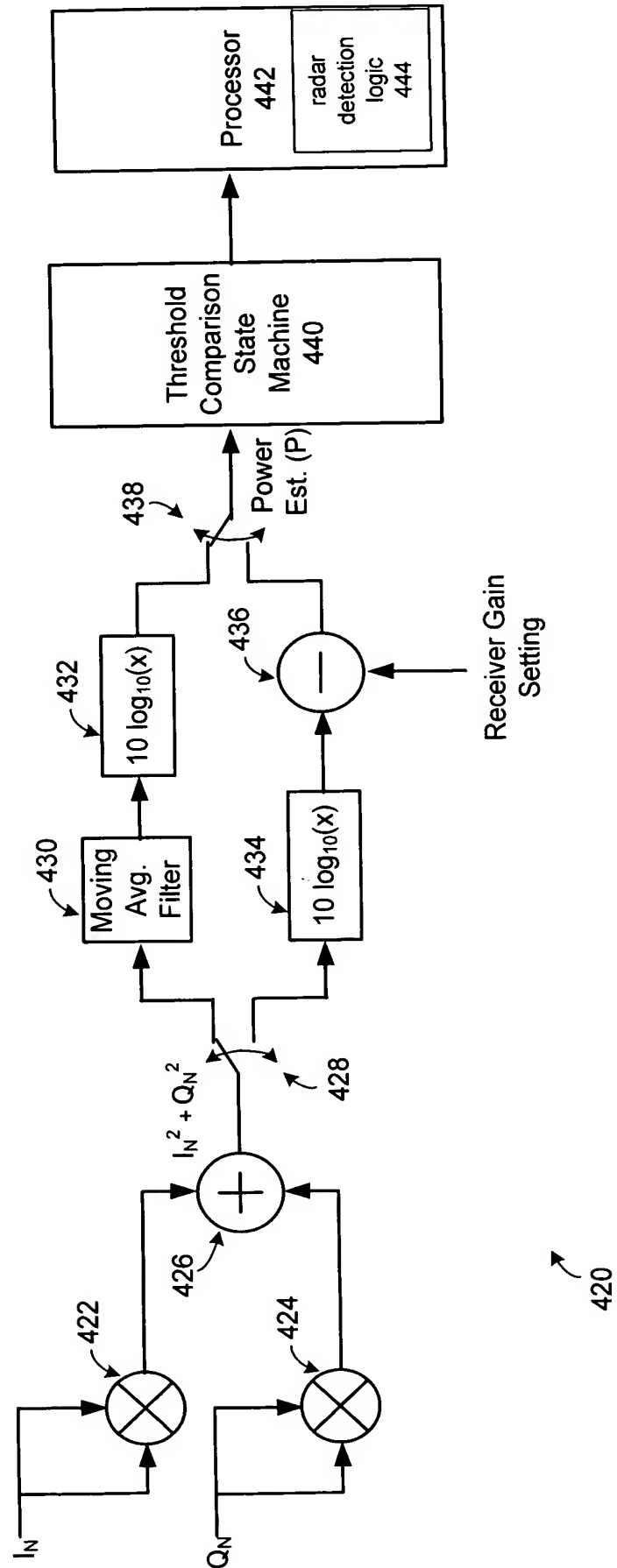


FIG. 8 receiver with radar detection block

To Processor



radar detection logic

FIG. 9

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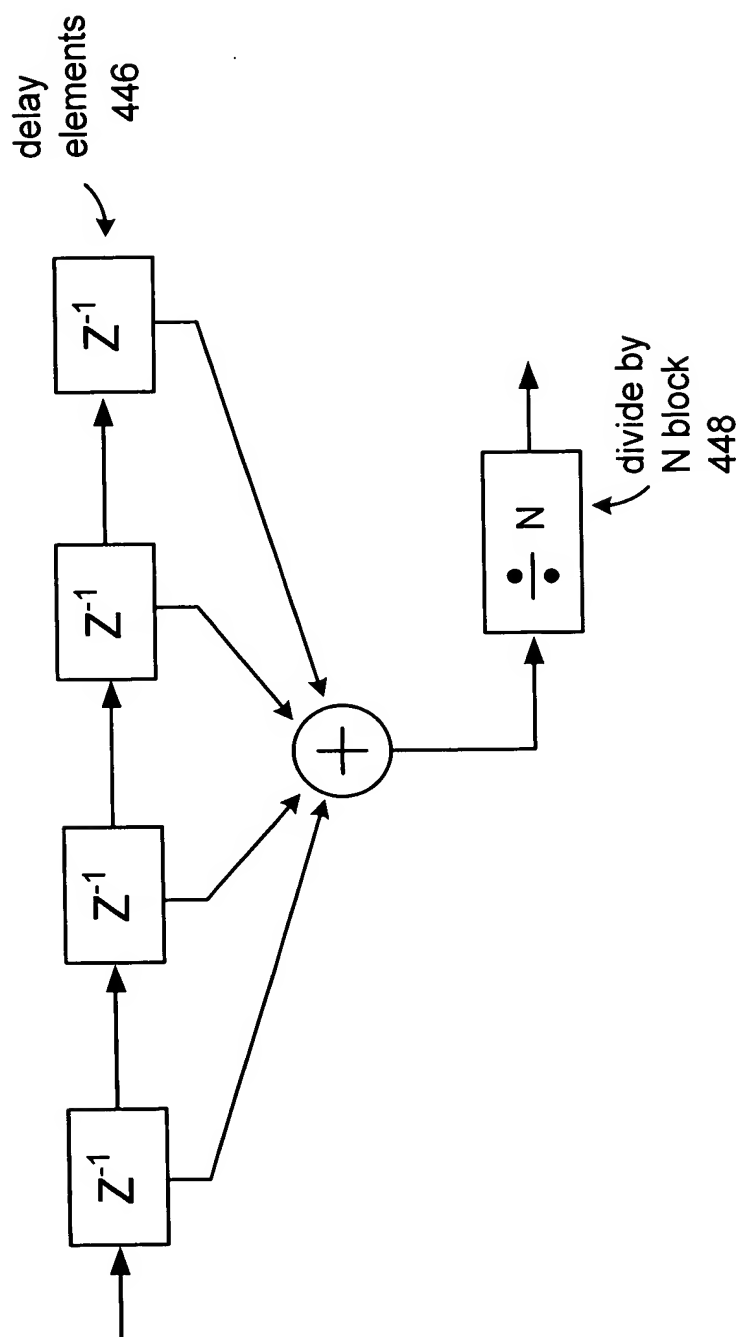


FIG. 11 moving average determination logic

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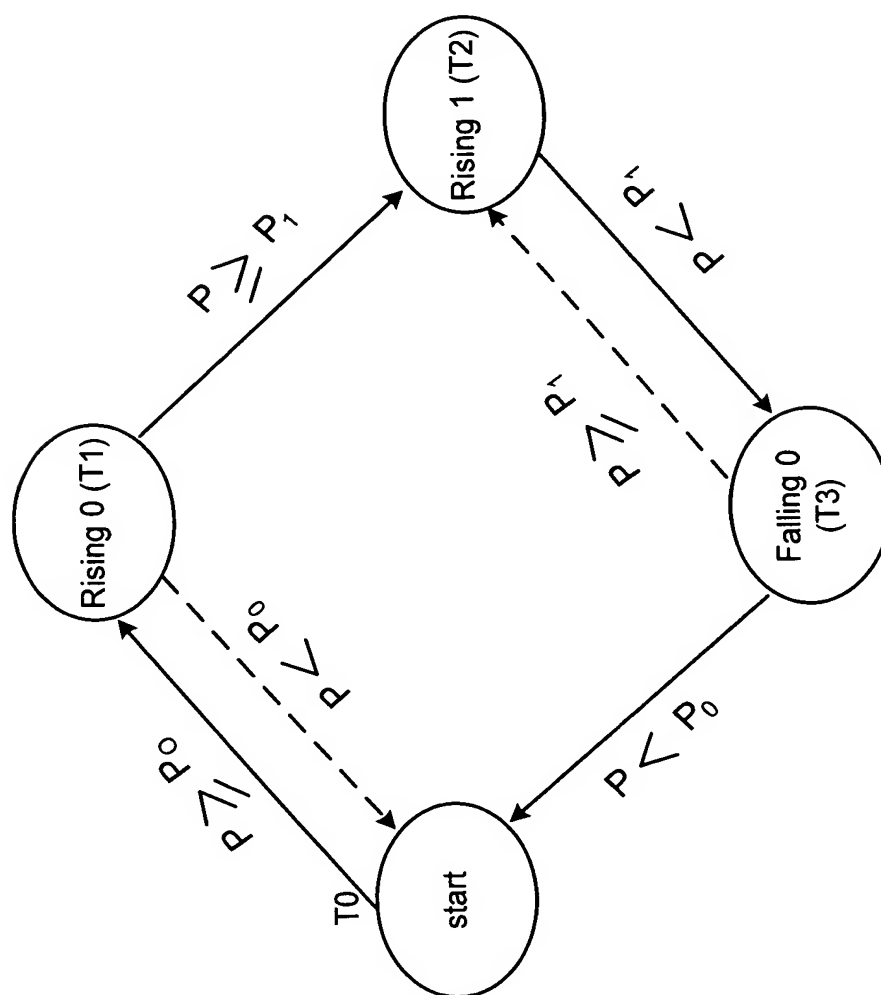


FIG. 12 state machine for detecting radar pulses

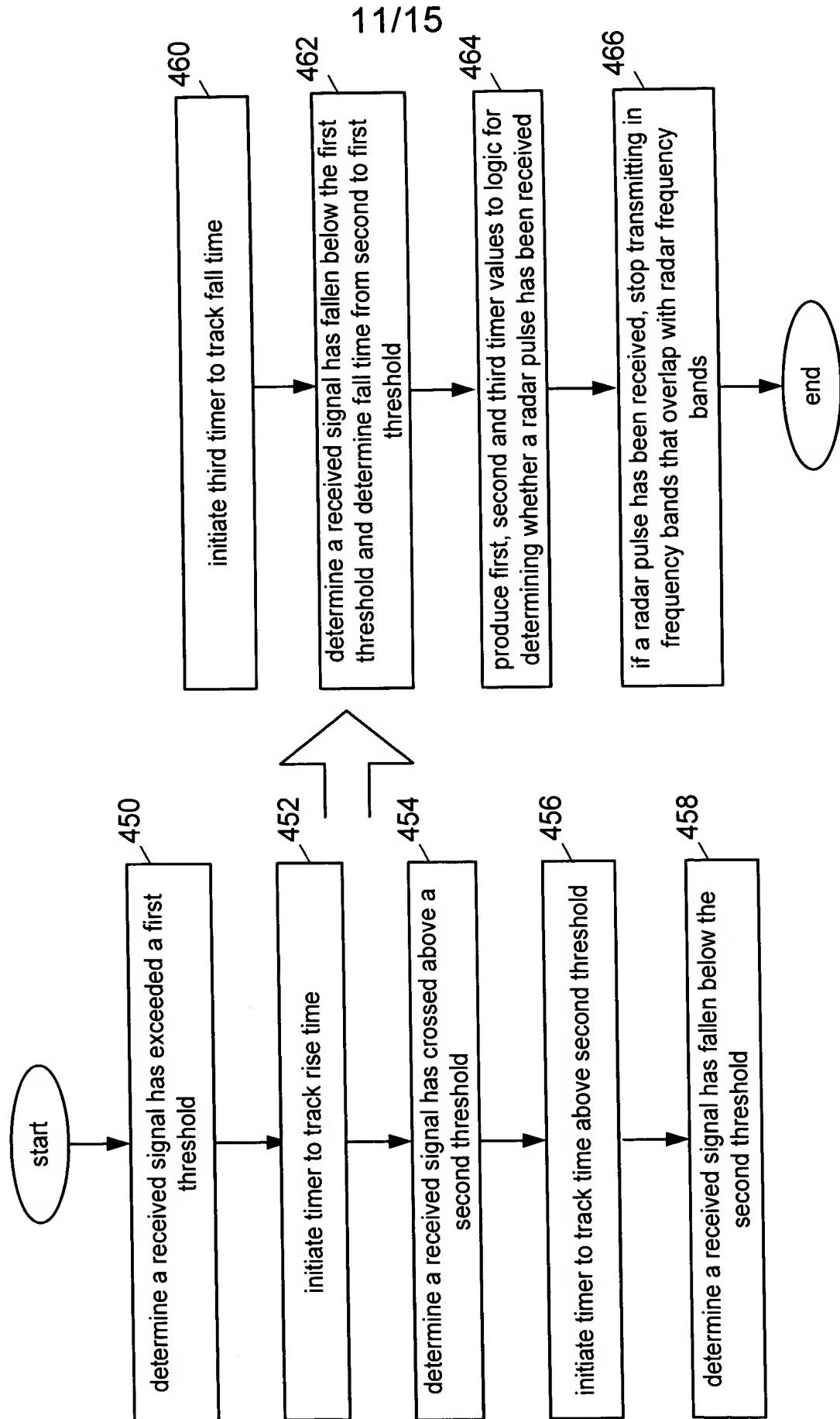
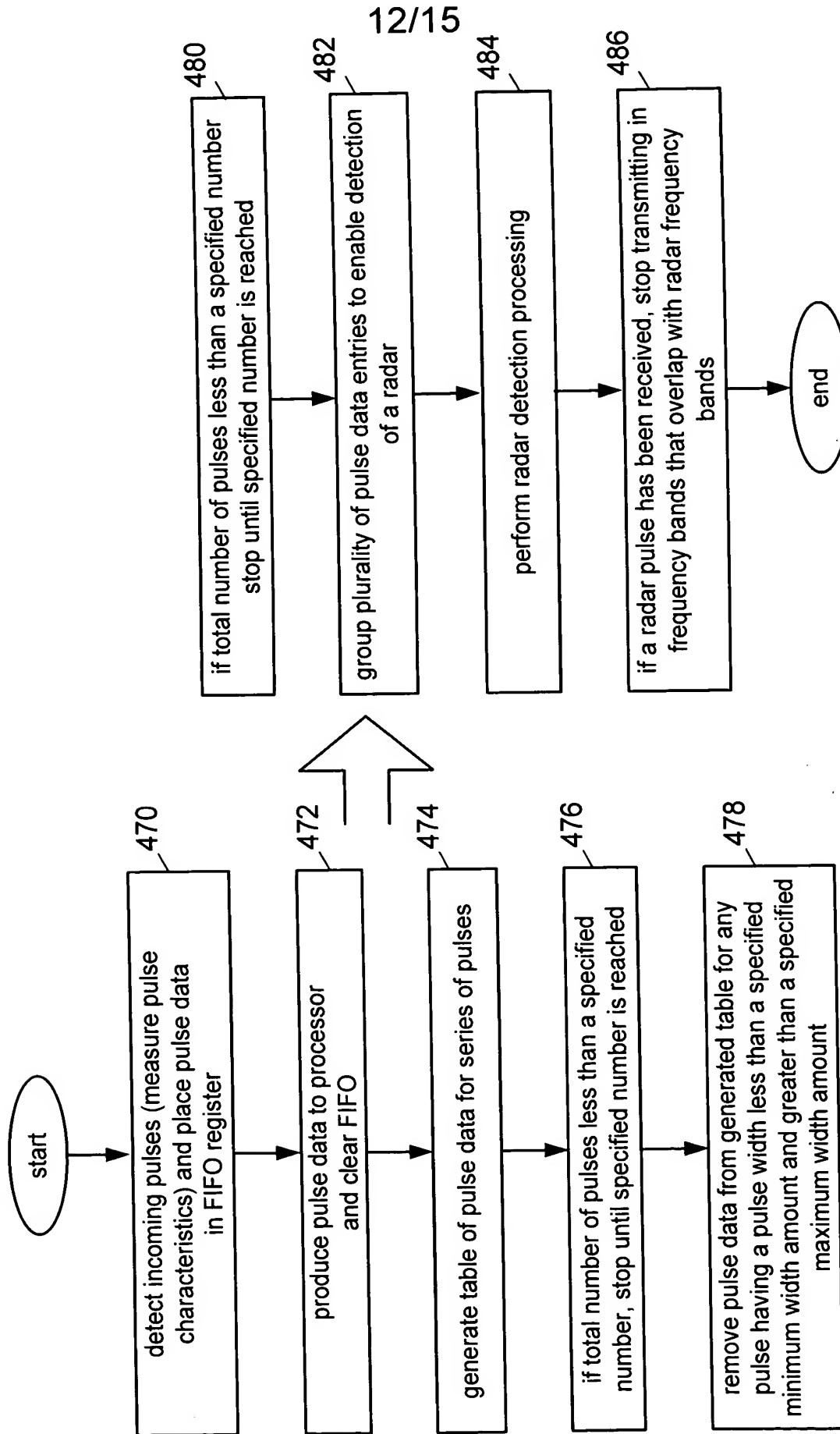
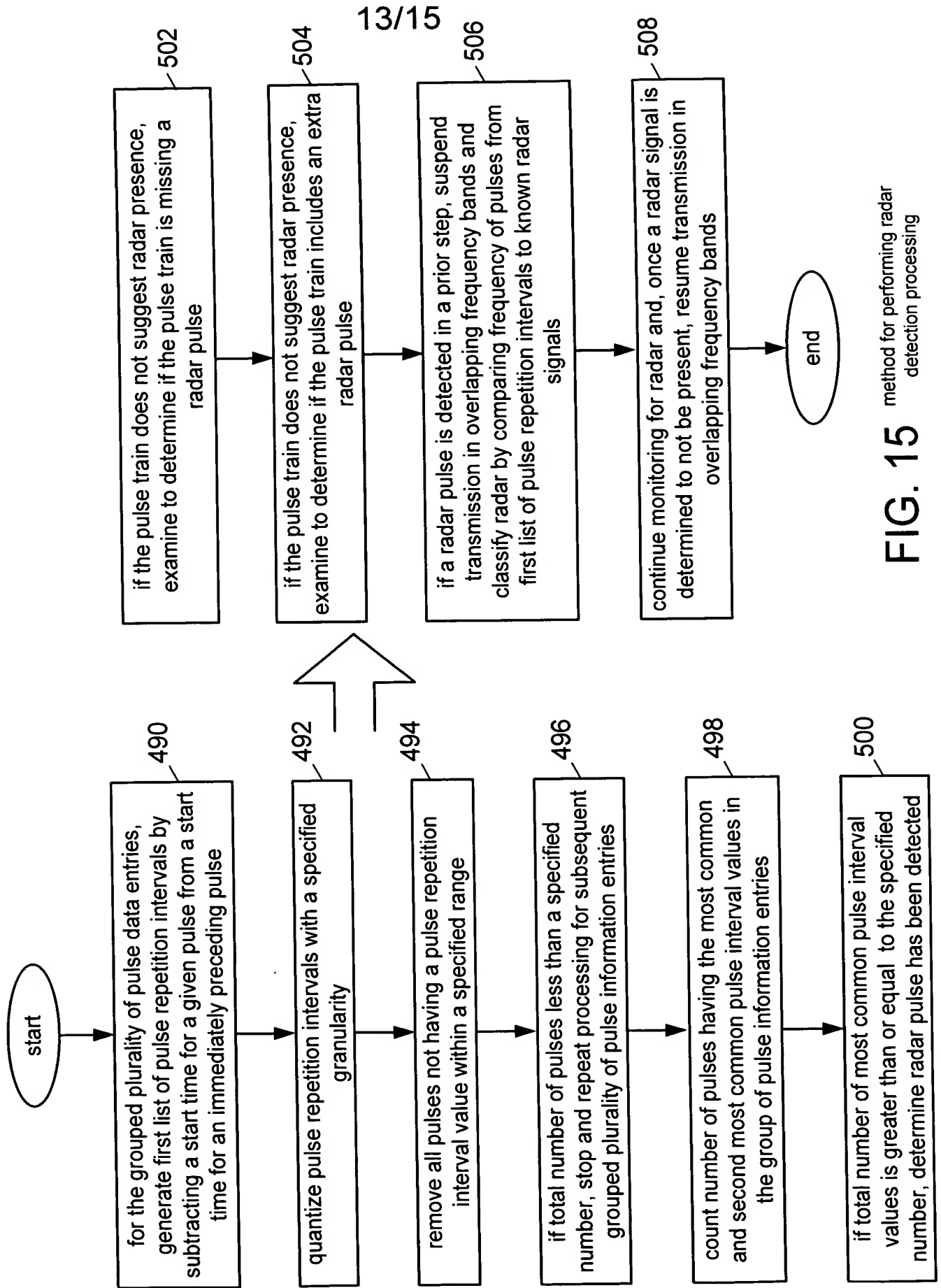


FIG. 13 method for determining if a radar pulse has been received

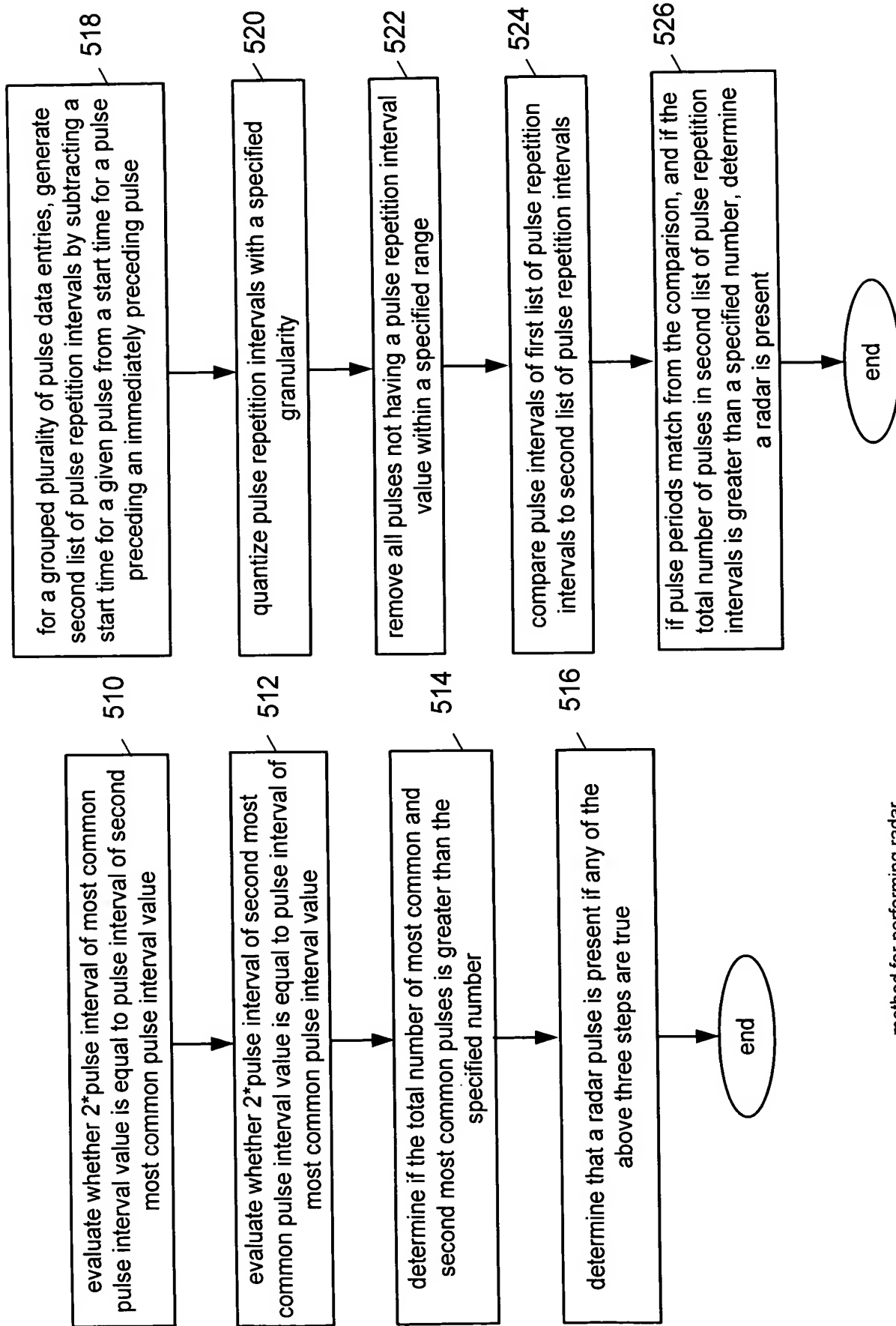


method for performing radar detection processing

FIG. 14



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pulse 1

pulse 2

pulse 3

pulse 4

pulse 5

pulse n

start time	rise time	pulse width	fall time
A	B	C	D
E	F	G	H
I	J	K	L
M	N	O	P
Q	R	S	U
W	X	Y	Z

method for performing radar
detection processing

FIG. 18

pulse interval	pulse interval quantity by type
E - A	n1
I - E	n2
M - I	n3
Q - M	n4
W - Q	n5

pulse interval	pulse interval quantity by type
I - A	n1
M - E	n2
Q - I	n3
W - M	n4

method for performing radar
detection processing for extra pulses

method for performing radar
detection processing for
missing pulses

FIG. 19

FIG. 20